

# Combat<sup>®</sup> UHD[S] - Series Tubular Duct Furnaces



### UHD[S] Models 75 - 125



UHD[S] Models 150 - 400 🕨

- 82% efficiency with use of tubular heat exchangers and inshot burners
- Reliable ignition with direct spark ignition burners.
- Installation and operation flexibility with rear or top air and flue connections (Models UHD[S] 75 - 125 only).
- Helps reduce dirt build-up on burners and helps extend life of heat exchanger with separated combustion units.
- Longer life and less maintenance with optional stainless steel heat exchangers.
- Install downstream of refrigeration system with option stainless steel heat exchangers and drain pan (Models UHD[S] 150-400 only).

# 1.800.828.7450 шшш.rg-inc.com





Quality in Any Language™

## $Combat^{\circ}$ UHD[S] 75 - UHD[S] 125 Clearances and Dimension Data

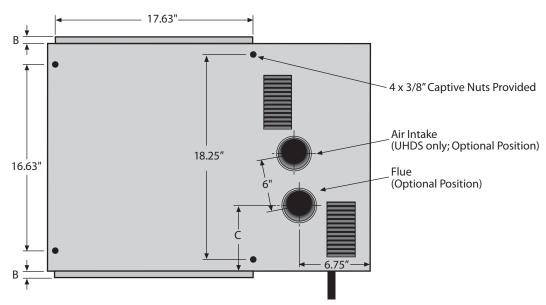
### Clearances to Combustibles - Low Profile UHD[S] Range (Models 75 - 125)

Above Heater	Below Heater	To Side of Heater	Access Side Door	To Flue		
1"	1"	1"	18" Access Clearance	2"		

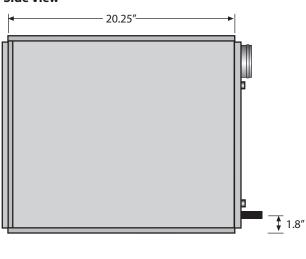
### Dimension Data - Low-Profile UHD[S] Range (Models 75 - 125)

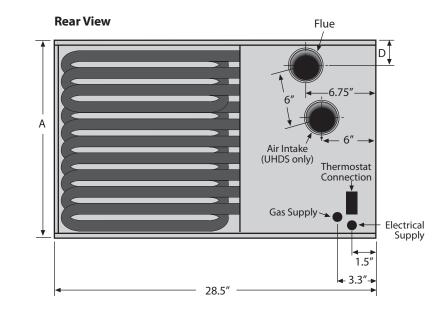
Model		75	100	125
'A' Height	[in]	17.75	23	23
'B' Duct Connectors	[in]	1.25	1.25	1.25
'C' Center of Flue [Top Option]	[in]	5.2	6.9	6.9
'D' Center of Flue	[in]	2.5	2.5	2.5

**Top View** 









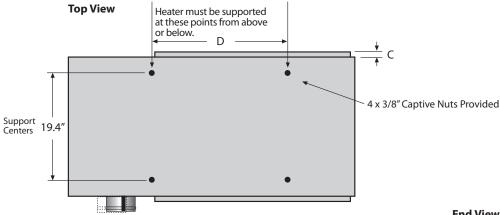
## $Combat^{\circ}$ UHD[S] 150 - UHD[S] 400 Clearances and Dimension Data

#### Clearances to Combustibles - Low Profile UHD[S] Range (Models 75 - 125)

Above Heater	Above Heater Below Heater		Access Side Door	To Flue		
6"	6"	6"	31" Access Clearance	2"		

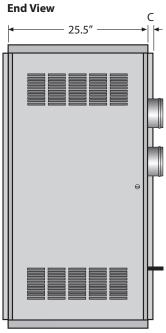
#### Dimension Data - Standard UHD[S] Range (Models 150 - 400)

Model		150	175	200	225	250	300	350	400
'A' Width	[in]	43	43	43	43	43	50	50	50
'B' Height	[in]	27	27	35.25	35.25	35.25	43.5	43.5	43.5
'C' Duct Connectors	[in]	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
'D' Support Spacing	[in]	17.6	17.6	17.6	17.6	17.6	24.7	24.7	24.7
'F' Center of Flue	[in]	9.5	9.5	17	17	17	13.6	13.6	13.6
'G' Flue Center to Air Intake Center	[in]	6	6	6	6	6	7	7	7
'H' Position of Flue	[in]	4.5	4.5	4.75	4.75	4.75	4.9	4.9	4.9
'J' Gas Inlet Position	[in]	5.9	5.9	5.9	5.9	5.9	8.7	8.7	8.7
'K' Electrical Supply Position	[in]	3.4	3.4	3.4	3.4	3.4	6.2	6.2	6.2



Rear View

А



### Combat<sup>®</sup> UHD[S]-Series Technical Data

Model		75	100	125	150	175	200	225	250	300	350	400
Total Input [Btu	/h] x [1000]	75	100	125	150	175	200	225	250	300	350	385
Total Output [Btu	/h] x [1000]	61.5	82	102.5	123	143.5	164	184.5	205	246	288.6	315.7
Efficiency		82% - All Models										
Number of Burners		5	6	7	7	8	9	10	11	12	14	14
Gas Connection	[in]	1⁄2	1⁄2	1⁄2	1⁄2	1⁄2	1⁄2	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4
Inlet Pressure [in v	Inlet Pressure [in wc] NG Min.											
LPG Propane Min.		12										
NG & LPG Pr	14											
Electrical Supply	115 V / 60 Hz / 1 Ø - All Models											
Minimum Air Volume	[CFM]	850	950	1020	1360	1400	2050	2100	2350	2700	3120	3420
Temperature Rise @ Minimum Air Volume	[°F]	68	78	92	83	95	73	80	80	86	86	86
Heat Exchanger Pressure Drop @ Minimum Air Volume	[in wc]	0.06	0.05	0.06	0.02	0.03	0.025	0.035	0.05	0.02	0.03	0.04
Maximum Air Volume	[CFM]	2650	3660	4750	5800	6850	7750	8300	8850	10200	13600	14200
Temperature Rise @ Maximum Air Volume	[°F]	22	22	20	20	20	20	20	22	23	22	22
Heat Exchanger Pressure Drop @ Maximum Air Volume	[in wc]	0.36	0.55	0.98	0.16	0.29	0.163	0.253	0.35	0.27	0.48	0.53
Flue Size	[in]	4 - All Mo	odels									
Air Intake	[in]	4	4	4	4	4	4	4	4	5	5	5
Weight	[lb]	81	92	97	191	211	239	249	254	325	345	345

### Installation Code and Annual Inspections:

All installations and service of ROBERTS GORDON<sup>®</sup> equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Roberts-Gordon and conform to all requirements set forth in the ROBERTS GORDON<sup>®</sup> manuals and all applicable governmental authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, Roberts-Gordon recommends that a qualified contractor annually inspect your ROBERTS GORDON<sup>®</sup> equipment and perform service where necessary, using only replacement parts sold and supplied by Roberts-Gordon.

**Further Information:** Applications, engineering and detailed guidance on systems design, installation and equipment performance is available through ROBERTS GORDON<sup>®</sup> representatives. Please contact us for any further information you may require, including the Installation, Operation and Service Manual.

#### This product is not for residential use.

This document is intended to assist licensed professionals in the exercise of their professional judgement.

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